

Abstract

Without the increase in the stem's torque operation, the seat ring seal near the stem through-hole and the sealing performance against leaching of fluid through the gap between the stem through-hole on the inner circumference of the seat ring and the stem have improved.

The seat ring 1 made of EPDM is formed integrally on a hollow cylindrical body portion 5 and a flange surface 6 on both its side surfaces, and stem through-holes 9 and 10 through which a stem 3 penetrates is formed on the body portion 5 above and below the stem axial direction X. An outer circumference 7 of the body portion 5 is formed in an elliptic shape with the stem axial direction X as its long axis. That is, it is there so that the thickness of the portion on which the stem through-holes 9 and 10 are provided is the maximum while the thickness b of the horizontal portion when both of them are moved by 90 degrees is the minimum. And also, an inner circumference 8 is formed as a flat surface in a circular shape.